

## MULTIPLYING FRACTIONS

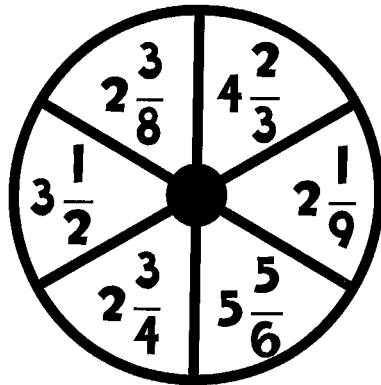
### MULTIPLYING FRACTIONS

- In order to multiply fractions and mixed numbers, each number must be written as a proper or improper fraction.
- Mixed numbers must be Converted to improper fractions, and whole numbers must be written over 1.
- Steps for multiplying fractions:
  1. Change each mixed number to an improper.
  2. multiply numerators.
  3. Multiply denominators.
  4. Simplify.

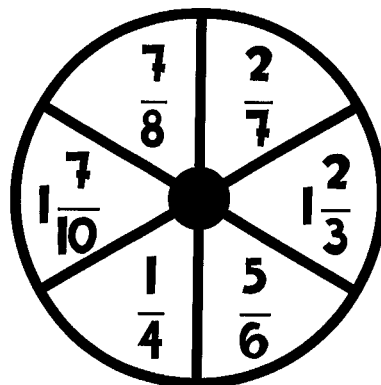
Practice multiplying the different types of fractions below.

MULTIPLY FRACTIONS	$\frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$ $6\frac{2}{7} \cdot \frac{2}{7} = \frac{12}{49}$
CANCEL COMMON FACTORS	$\frac{1}{\cancel{2}^1} \cdot \frac{\cancel{2}^1}{\cancel{4}^2} = \frac{1}{2}$ $\frac{\cancel{3}^1}{\cancel{4}^2} \cdot \frac{\cancel{3}^3}{\cancel{15}^5} = \frac{3}{20}$
MULTIPLY MIXED NUMBERS	$2\frac{1}{2} \cdot 3\frac{3}{5} = 19$ $4\frac{5}{6} \cdot 1\frac{1}{4} = \frac{29}{4}$

Using your pencil and a paper clip, spin each spinner. Then add, subtract, or multiply depending on each problem number.



SPINNER 1



SPINNER 2

	MULTIPLY	ADD	MULTIPLY	SUBTRACT	MULTIPLY
SPIN 1					
SPIN 2					
WORK					
SOLUTION					

1. A fruitcake recipe calls for  $2\frac{1}{3}$  cups of almonds and  $1\frac{3}{4}$  cups of pecans. If Eliza would like to make 4 fruit cakes, then how many cups of nuts does she need?

## MULTIPLYING FRACTIONS

Match each correct answer to a letter and complete the riddle below.

<b>1</b>	$\frac{4}{7} \cdot \frac{3}{8} =$
<b>2</b>	Maria ate $\frac{1}{3}$ of a pie. Her sister, Rebecca, ate $\frac{1}{5}$ of that. What fraction of the whole pie did Rebecca eat?
<b>3</b>	$1\frac{8}{9} \cdot \frac{6}{11} =$
<b>4</b>	A recipe requires $\frac{5}{6}$ of a cup of sugar. If Mrs. Marina is going to make one half of the recipe, then how much sugar does she need?
<b>5</b>	$2\frac{2}{3} \cdot 1\frac{4}{5} =$
<b>6</b>	Sammy is laying brick in his front walkway. The rectangular path measures $\frac{3}{5}$ of a foot by $\frac{4}{9}$ of a foot. What is the area of space that will be covered with bricks?
<b>7</b>	$3\frac{2}{3} \cdot 2\frac{3}{4} =$
<b>8</b>	An article fills $\frac{1}{2}$ of a magazine page. A corresponding photo takes up $\frac{3}{8}$ of the article. How much of the page is taken up by the photo?
<b>9</b>	$\frac{7}{10} \cdot \frac{4}{7} =$

G: $\frac{3}{7}$	E: $2\frac{2}{5}$	K: $\frac{1}{15}$	C: $\frac{1}{2}$	P: $\frac{2}{5}$
P: $\frac{5}{12}$	T: $\frac{6}{11}$	I: $1\frac{1}{33}$	P: $\frac{4}{15}$	B: $3\frac{2}{3}$
U: $10\frac{1}{12}$	N: $4\frac{4}{5}$	J: $4\frac{2}{5}$	M: $\frac{3}{14}$	I: $\frac{3}{16}$

**WHAT DO YOU GET IF YOU DIVIDE THE CIRCUMFERENCE OF A JACK-O-LANTERN BY ITS DIAMETER?**

\_\_\_\_\_

4      7      1      9      2      8      5      6      3